

STN Columbus

* * * * * Welcome to STN International * * * * *

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America
 NEWS 2 Apr 08 "Ask CAS" for self-help around the clock
 NEWS 3 Jun 03 New e-mail delivery for search results now available
 NEWS 4 Aug 08 PHARMAMarketLetter(PHARMAML) - new on STN
 NEWS 5 Aug 19 Aquatic Toxicity Information Retrieval (AQUIRE)
 now available on STN
 NEWS 6 Aug 26 Sequence searching in REGISTRY enhanced
 NEWS 7 Sep 03 JAPIO has been reloaded and enhanced
 NEWS 8 Sep 16 Experimental properties added to the REGISTRY file
 NEWS 9 Sep 16 CA Section Thesaurus available in CAPLUS and CA
 NEWS 10 Oct 01 CASREACT Enriched with Reactions from 1907 to 1985
 NEWS 11 Oct 24 BEILSTEIN adds new search fields
 NEWS 12 Oct 24 Nutraceuticals International (NUTRACEUT) now available on STN
 NEWS 13 Nov 18 DKILIT has been renamed APOLLIT
 NEWS 14 Nov 25 More calculated properties added to REGISTRY
 NEWS 15 Dec 04 CSA files on STN
 NEWS 16 Dec 17 PCTFULL now covers WP/PCT Applications from 1978 to date
 NEWS 17 Dec 17 TOXCENTER enhanced with additional content
 NEWS 18 Dec 17 Adis Clinical Trials Insight now available on STN
 NEWS 19 Jan 29 Simultaneous left and right truncation added to COMPENDEX,
 ENERGY, INSPEC
 NEWS 20 Feb 13 CANCERLIT is no longer being updated
 NEWS 21 Feb 24 METADEX enhancements
 NEWS 22 Feb 24 PCTGEN now available on STN
 NEWS 23 Feb 24 TEMA now available on STN
 NEWS 24 Feb 26 NTIS now allows simultaneous left and right truncation
 NEWS 25 Feb 26 PCTFULL now contains images
 NEWS 26 Mar 04 SDI PACKAGE for monthly delivery of multifile SDI results
 NEWS 27 Mar 19 APOLLIT offering free connect time in April 2003
 NEWS 28 Mar 20 EVENTLINE will be removed from STN
 NEWS 29 Mar 24 PATDPAFULL now available on STN
 NEWS 30 Mar 24 Additional information for trade-named substances without
 structures available in REGISTRY
 NEWS 31 Apr 11 Display formats in DGENE enhanced
 NEWS 32 Apr 14 MEDLINE Reload
 NEWS 33 Apr 17 Polymer searching in REGISTRY enhanced
 NEWS 34 Apr 21 Indexing from 1947 to 1956 being added to records in CA/CAPLUS
 NEWS 35 Apr 21 New current-awareness alert (SDI) frequency in
 WPIDS/WPINDEX/WPIX
 NEWS EXPRESS April 4 CURRENT WINDOWS VERSION IS V6.01a, CURRENT
 MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),
 AND CURRENT DISCOVER FILE IS DATED 01 APRIL 2003
 NEWS HOURS STN Operating Hours Plus Help Desk Availability
 NEWS INTER General Internet Information
 NEWS LOGIN Welcome Banner and News Items
 NEWS PHONE Direct Dial and Telecommunication Network Access to STN
 NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

All use of STN is subject to the provisions of the STN Customer agreement. Please note that this agreement limits use to scientific research. Use for software development or design or implementation of commercial gateways or other similar uses is prohibited and may

STN Columbus

result in loss of user privileges and other penalties.

***** STN Columbus *****

FILE 'HOME' ENTERED AT 16:25:52 ON 25 APR 2003

=> file caplus		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'CAPLUS' ENTERED AT 16:26:27 ON 25 APR 2003
 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
 PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
 COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications. The CA Lexicon is the copyrighted intellectual property of the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storing of this information, without the prior written consent of CAS, is strictly prohibited.

FILE COVERS 1907 - 25 Apr 2003 VOL 138 ISS 18
 FILE LAST UPDATED: 24 Apr 2003 (20030424/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s hide

9430 HIDE
 6357 HIDES
 L1 12609 HIDE
 (HIDE OR HIDES)

=> s super absorbent polymer

48770 SUPER
 12 SUPERS
 48781 SUPER
 (SUPER OR SUPERS)
 31336 ABSORBENT
 16364 ABSORBENTS
 37811 ABSORBENT
 (ABSORBENT OR ABSORBENTS)
 890748 POLYMER
 753199 POLYMERS
 1216365 POLYMER
 (POLYMER OR POLYMERS)
 L2 106 SUPER ABSORBENT POLYMER
 (SUPER(W) ABSORBENT(W) POLYMER)

=> s l1 and l2

L3 0 L1 AND L2

STN Columbus

=> s methacryl? or acryl?
 221697 METHACRYL?
 384770 ACRYL?
 L4 489638 METHACRYL? OR ACRYL?

=> s l1 and l4
 L5 310 L1 AND L4

=> s l4 not acrylonitrile
 81348 ACRYLONITRILE
 920 ACRYLONITRILES
 81607 ACRYLONITRILE
 (ACRYLONITRILE OR ACRYLONITRILES)
 L6 408031 L4 NOT ACRYLONITRILE

=> del l6 y

=> s l5 not acrylonitrile
 81348 ACRYLONITRILE
 920 ACRYLONITRILES
 81607 ACRYLONITRILE
 (ACRYLONITRILE OR ACRYLONITRILES)
 L6 283 L5 NOT ACRYLONITRILE

=> s l6 and (sodium chloride or nacl)
 846642 SODIUM
 34 SODIUMS
 846652 SODIUM
 (SODIUM OR SODIUMS)
 924204 CHLORIDE
 143229 CHLORIDES
 991937 CHLORIDE
 (CHLORIDE OR CHLORIDES)
 97316 SODIUM CHLORIDE
 (SODIUM(W) CHLORIDE)
 249054 NACL
 2 NACLS
 249055 NACL
 (NACL OR NACLS)
 L7 17 L6 AND (SODIUM CHLORIDE OR NACL)

=> d l7 1-17 all

L7 ANSWER 1 OF 17 CAPLUS COPYRIGHT 2003 ACS

Full Text

AN 2000:646192 CAPLUS
 DN 133:239692
 TI Use of superabsorbent polymers for treating **hides**, corresponding
 compositions and methods and resulting treated **hides**
 IN Brosse, Jacques; Sabatier, Bernard
 PA Snf S.A., Fr.
 SO PCT Int. Appl., 58 pp.
 CODEN: PIXXD2
 DT Patent
 LA French
 IC ICM C14C001-02
 CC 45-2 (Industrial Organic Chemicals, Leather, Fats, and Waxes)
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000053816	A1	20000914	WO 2000-FR553	20000306
	W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU,				

STN Columbus

CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

FR 2790767 A1 20000915 FR 1999-3139 19990311
FR 2790767 B1 20010608
EP 1161565 A1 20011212 EP 2000-909434 20000306
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO
BR 2000008855 A 20011226 BR 2000-8855 20000306
PRAI FR 1999-3139 A 19990311
WO 2000-FR553 W 20000306

AB The invention concerns the use of superabsorbent (co) polymers or SAP such as Aquasorb 3005 KL (crosslinked **acrylamide-acrylate** copolymer) as treating agent for preserving animal **hides**. The SAP is preferably used in combination with salt or another hygroscopic agent, in particular 50% **NaCl**/50% SAP. The invention enables to obtain properly treated **hides** in only 24 h and to use twice less salt than in prior art, while eliminating all the major drawbacks such as surface brine and salt in slaughter house waste.

ST superabsorbent polymer **hide** preservative; crosslinked **acrylamide acrylate** copolymer preservative **hide**

IT **Hide**
Preservatives
Superabsorbents
(use of superabsorbent polymers for preservation of **hides**)

IT 79-06-1D, **Acrylamide**, crosslinked polymers with **acrylates** 79-10-7D, **Acrylic acid**, esters, crosslinked polymers with **acrylamide** 2439-35-2D, Dimethylaminoethyl **acrylate**, crosslinked polymers with **acrylamide**, chloromethylated 2867-47-2D, Dimethylaminoethyl **methacrylate**, crosslinked polymers with **acrylamide**, chloromethylated 33882-67-6, Aquasorb PR 3005A 293301-73-2, Aquasorb 3005KL 293301-75-4, Aquasorb 3005KM
RL: NUU (Other use, unclassified); USES (Uses)
(use of superabsorbent polymers for preservation of **hides**)

RE.CNT 92 THERE ARE 92 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE
(1) Anon; PL 134175 A CAPLUS
(2) Anon; PL 134175 A CAPLUS
(3) Anon; RU 432197 A 1974
(4) Anon; RU 432197 A 1974
(5) Anon; 1987 CAPLUS
(6) Anon; 1987 CAPLUS
(7) Anon; EP 0224923 A 1987 CAPLUS
(8) Anon; EP 0224923 A 1987 CAPLUS
(9) Anon; JP 62-132936 A 1987 CAPLUS
(10) Anon; JP 62-132936 A 1987 CAPLUS
(11) Anon; US 4732968 A 1988 CAPLUS
(12) Anon; US 4732968 A 1988 CAPLUS
(13) Anon; KR 9001380 B 1990
(14) Anon; KR 9001380 B 1990
(15) Anon; EP 0410862 A 1991 CAPLUS
(16) Anon; EP 0410862 A 1991 CAPLUS
(17) Anon; CN 1049527 A 1991 CAPLUS
(18) Anon; CN 1049527 A 1991 CAPLUS
(19) Anon; CA 2022134 A 1991 CAPLUS
(20) Anon; CA 2022134 A 1991 CAPLUS

- (21) Anon; FR 2650294 A 1991 CAPLUS
- (22) Anon; FR 2650294 A 1991 CAPLUS
- (23) Anon; DE 296705 A 1991
- (24) Anon; DE 296705 A 1991
- (25) Anon; JP 31-15500 A 1991
- (26) Anon; JP 31-15500 A 1991
- (27) Anon; DE 3679514 D 1991
- (28) Anon; DE 3679514 D 1991
- (29) Anon; HU 56399 A 1991 CAPLUS
- (30) Anon; HU 56399 A 1991 CAPLUS
- (31) Anon; AU 5983990 A 1991
- (32) Anon; AU 5983990 A 1991
- (33) Anon; BR 9003683 A 1991 CAPLUS
- (34) Anon; BR 9003683 A 1991 CAPLUS
- (35) Anon; ZA 9005879 A 1991 CAPLUS
- (36) Anon; ZA 9005879 A 1991 CAPLUS
- (37) Anon; NO 903322 A 1991
- (38) Anon; NO 903322 A 1991
- (39) Anon; PT 94841 A 1991
- (40) Anon; PT 94841 A 1991
- (41) Anon; NZ 234621 A 1992
- (42) Anon; NZ 234621 A 1992
- (43) Anon; CZ 9003729 A 1992
- (44) Anon; CZ 9003729 A 1992
- (45) Anon; AU 3349593 A 1993
- (46) Anon; AU 3349593 A 1993
- (47) Anon; DE 4201452 A 1993 CAPLUS
- (48) Anon; DE 4201452 A 1993 CAPLUS
- (49) Anon; WO 9314227 A 1993 CAPLUS
- (50) Anon; WO 9314227 A 1993 CAPLUS
- (51) Anon; EP 0623178 A 1994 CAPLUS
- (52) Anon; EP 0623178 A 1994 CAPLUS
- (53) Anon; JP 60-43500 B 1994
- (54) Anon; JP 60-43500 B 1994
- (55) Anon; IL 95193 A 1994 CAPLUS
- (56) Anon; IL 95193 A 1994 CAPLUS
- (57) Anon; RO 109558 A 1995 CAPLUS
- (58) Anon; RO 109558 A 1995 CAPLUS
- (59) Anon; AT 124727 T 1995
- (60) Anon; AT 124727 T 1995
- (61) Anon; JP 19-18788 C 1995
- (62) Anon; JP 19-18788 C 1995
- (63) Anon; ES 2074925 T 1995 CAPLUS
- (64) Anon; ES 2074925 T 1995 CAPLUS
- (65) Anon; US 5425734 A 1995 CAPLUS
- (66) Anon; US 5425734 A 1995 CAPLUS
- (67) Anon; DE 59300412 D 1995
- (68) Anon; DE 59300412 D 1995
- (69) Anon; DE 69020659 D 1995
- (70) Anon; DE 69020659 D 1995
- (71) Anon; JP 70-17920 B 1995
- (72) Anon; JP 70-17920 B 1995
- (73) Anon; JP 75-03033 T 1995 CAPLUS
- (74) Anon; JP 75-03033 T 1995 CAPLUS
- (75) Anon; KR 9500075 B 1995
- (76) Anon; KR 9500075 B 1995
- (77) Anon; RU 2052507 C 1996 CAPLUS
- (78) Anon; RU 2052507 C 1996 CAPLUS
- (79) BASF AG; DE 4201452 A 1993 CAPLUS
- (80) BASF AG; DE 4201452 A 1993 CAPLUS
- (81) Barrett, J; Journal of the Societc of Leather Technologies and Chemists
V70, P84

- (82) Barrett, J; Journal of the Societc of Leather Technologies and Chemists V70, P84
- (83) Felicjaniak, B; PL 134175 A 1986 CAPLUS
- (84) Felicjaniak, B; PL 134175 A 1986 CAPLUS
- (85) Moscow Meat Milk Ind Ins; RU 432197 A 1974
- (86) Moscow Meat Milk Ind Ins; RU 432197 A 1974
- (87) Rhone Poulenc Chimie; EP 0410862 A 1991 CAPLUS
- (88) Rhone Poulenc Chimie; EP 0410862 A 1991 CAPLUS
- (89) Sakamoto, Y; US 4732968 A 1988 CAPLUS
- (90) Sakamoto, Y; US 4732968 A 1988 CAPLUS
- (91) Sweet, L; Journal of the American Leather Chemists Association 1982, V77, P193
- (92) Sweet, L; Journal of the American Leather Chemists Association 1982, V77, P193

L7 ANSWER 2 OF 17 CAPLUS COPYRIGHT 2003 ACS

Full Text

- AN 1992:131549 CAPLUS
- DN 116:131549
- TI Crosslinking of collagen with **acrylamide** derivatives. II.
N,N'-methylenebisacrylamide and higher homologs
- AU Fearheller, S. H.; Scholnick, F.; Ying, Li
- CS East. Reg. Res. Cent., ARS, Philadelphia, PA, 19118, USA
- SO Journal of the American Leather Chemists Association (1991), 86(5), 171-8
CODEN: JALCAQ; ISSN: 0002-9726
- DT Journal
- LA English
- CC 45-2 (Industrial Organic Chemicals, Leather, Fats, and Waxes)
- AB Two sym. derivs. of **acrylamide**, i.e. N,N'-methylenebisacrylamide and N,N'-ethylenebisacrylamide crosslinked **hide** collagen and, with proper control of the reaction conditions, served as tanning agents. The reactions took place under alk. conditions and swelling was controlled by addn. of Na2SO4. Shrinkage temps. >80° were obtained and the products exhibited good resistance to chem. and enzymic attack. The products were made into white leather on a small scale.
- ST bisacrylamide crosslinking collagen; tanning agent methylenebisacrylamide
- IT Tanning materials
(alkylenebisacrylamides, crosslinking of collagens in relation to)
- IT Crosslinking agents
(alkylenebisacrylamides, for collagens)
- IT Collagens, reactions
RL: RCT (Reactant); RACT (Reactant or reagent)
(crosslinking of, with alkylenebisacrylamides)
- IT 7647-14-5, **Sodium chloride (NaCl)**,
miscellaneous 7757-82-6, Sulfuric acid disodium salt, miscellaneous
7778-80-5, Sulfuric acid dipotassium salt, miscellaneous
RL: MSC (Miscellaneous)
(alkylenebisacrylamide-crosslinked **hide** collagen swelling controlled by addn. of)
- IT 110-26-9, Methylenebisacrylamide 2956-58-3, Ethylenebisacrylamide
RL: USES (Uses)
(crosslinking of collagen with, tanning agents in relation to)

L7 ANSWER 3 OF 17 CAPLUS COPYRIGHT 2003 ACS

Full Text

- AN 1990:79857 CAPLUS
- DN 112:79857
- TI Manufacture of leather from fish skins
- AU Alfaro, Pedro Herrera
- CS Esc. Quim., Univ. Costa Rica, San Jose, 2060, Costa Rica
- SO Ingenieria y Ciencia Quimica (1988), 12(1-2), 18-20
CODEN: ICQUD9; ISSN: 0250-8303

DT Journal
 LA Spanish
 CC 45-2 (Industrial Organic Chemicals, Leather, Fats, and Waxes)
 AB Fresh **hides** of *Coryphaena hippurus* (Dorado fish) were cleaned and soaked for 300 h in a surfactant-water bath, the scales were mech. removed, tanned in HCO₂H-Baychron A-NaCl-Na₂CO₃-H₂O baths at pH 3.2-3.5 for 1 h intervals with rinsing in between. The leather pieces were dried in air at ambient temp. for 3-4 days, the softened mech., retanned in a surfactant-Blancotan SN-mimosa-quebracho-water baths, dyed, dried, and finished with polyurethane or **acrylic** coatings. The leather has a nice scale design, natural finish look, and good mech. properties; the uniformity of articles depends on the variability of the size of pieces available.

ST Dorado fish leather manuf; *Coryphaena hippurus* leather tanning coating; mimosa quebracho retanning Dorado leather; polyurethane **acrylic** coating
 Dorado leather; formic acid tanning fish leather

IT Leather
 (from *Coryphaena hippurus*, manuf. and characteristics of)

IT *Coryphaena hippurus*
 (leather manuf. from **hide** of, process and product characteristics in relation to)

L7 ANSWER 4 OF 17 CAPLUS COPYRIGHT 2003 ACS
Full Text

AN 1989:233597 CAPLUS
 DN 110:233597
 TI Chrome-free, rapidly rewettable, biologically stabilized **hides** and their manufacture
 IN Gaveno, Gerard; Vulliermet, Bernard; Haran, Raymond; Gervais, Michele
 PA Centre Technique Cuir Chaussure Maroquinerie, Fr.
 SO Fr. Demande, 12 pp.
 CODEN: FRXXBL

DT Patent
 LA French
 IC ICM C14C009-00
 CC 45-2 (Industrial Organic Chemicals, Leather, Fats, and Waxes)
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	FR 2610643	A1	19880812	FR 1987-2035	19870211
	FR 2610643	B1	19890512		
	IN 172177	A	19930424	IN 1988-DE76	19880129
	ZA 8800692	A	19880928	ZA 1988-692	19880201
	CA 1299822	A1	19920505	CA 1988-557913	19880202
	AU 8811484	A1	19880818	AU 1988-11484	19880210
	AU 613338	B2	19910801		
	JP 63202700	A2	19880822	JP 1988-27802	19880210
	EP 281486	A1	19880907	EP 1988-420039	19880210
	EP 281486	B1	19910313		
	R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				
	BR 8800542	A	19880927	BR 1988-542	19880210
	AT 61634	E	19910315	AT 1988-420039	19880210
PRAI	FR 1987-2035		19870211		
	EP 1988-420039		19880210		
AB	Biol. stabilized hides , which are resistant to microbial degrdn., readily undergo posttreatment wetting in <1 h, and useful for leather clothing, are prepd. The hide has moisture content 15-20%, max. mineral content 10 ± 2%, acrylic resin content 2%, and contains 85 ± 3% dermal material. The hide is delimed, pickled in the presence of an acrylic resin, pretanned in the presence of Al salts, and treated with a polyhydric alc., fatty alc. ethoxylate, or ethoxylated alkylphenol to facilitate rapid rewetting.				

STN Columbus

- ST rewettable chrome free **hide** manuf; biol stabilized microbial resistance **hide**; ethoxylated fatty alc treated **hide**; alkylphenol ethoxylated treated **hide**
- IT **Hide**
(biol. stabilized, with rapid rewettability)
- IT **Acrylic** polymers, uses and miscellaneous
RL: USES (Uses)
(rapidly rewettable **hides** contg.)
- IT Alcohols, compounds
RL: USES (Uses)
(fatty, ethoxylated, biol. stabilized **hide** treatment with, for rapid rewettability)
- IT Alcohols, uses and miscellaneous
RL: USES (Uses)
(polyhydric, biol. stabilized **hide** treatment with, for rapid rewettability)
- IT 127-09-3, Sodium acetate 141-53-7, Sodium formate 994-36-5, Sodium citrate 1344-28-1, Aluminum oxide, uses and miscellaneous 7647-14-5, **Sodium chloride**, uses and miscellaneous 14475-11-7, Sodium tartrate 55892-56-3, Basic aluminum sulfate 120909-28-6 120946-97-6, Busan 30L
RL: USES (Uses)
(**hide** treatment with)
- IT 56-81-5, 1,2,3-Propanetriol, uses and miscellaneous 9016-45-9, Polyethylene glycol nonylphenol ether
RL: USES (Uses)
(**hide** treatment with, for rapid rewettability)
- IT 7429-90-5D, Aluminum, salts
RL: USES (Uses)
(pretanning of **acrylic** resin-treated **hides** with)

L7 ANSWER 5 OF 17 CAPLUS COPYRIGHT 2003 ACS

Full Text

AN 1985:525343 CAPLUS
DN 103:125343
TI Filling and retanning of leather
IN Trandafir, Viorica; Diaconu, Ioan; Bradescu, Ioan; Suciu, Ionel; Coara, Gheorghe; Staicu, Patriche; Olteanu, Mihaela; Leca, Minodora; Mindru, Ilie
PA Tabacaria Minerala, Corabia, Rom.
SO Rom., 4 pp.
CODEN: RUXXA3
DT Patent
LA Romanian
IC C14C007-00
CC 45-2 (Industrial Organic Chemicals, Leather, Fats, and Waxes)
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	RO 82794	B	19840523	RO 1981-103506	19810224
PRAI	RO 1981-103506		19810224		

AB Leather is filled and retanned with compns. contg. collagen hydrolyzate and **acrylic** acid-Et **acrylate**-Me **methacrylate** copolymer (I) [25135-39-1]. Thus, acid or neutral 40% solns. of collagen hydrolyzate were heated with I 2.5 h at 40°. Treating bated **hide** in a 20-40% bath contg. 6-10% **NaCl** and 3.0-6.0% this compn. for 20-50 min at 20-35° and pH 6-8.5, adding 0.5-0.7% HCO₂H as a 10% soln. at 25-30°, agitating, adding 0.4-0.6% H₂SO₄ as a 10% soln. at 25-30°, agitating 3-6 h, and tanning with Cr₂O₃ gave leather which was then further tanned, dyed, and oiled.

ST collagen hydrolyzed filler leather; **acrylate** copolymer filler leather; **methacrylate** copolymer filler leather; filler retanning leather

IT Collagens, uses and miscellaneous

STN Columbus

RL: USES (Uses)
 (hydrolyzed, filler-retanning agents for leather)
 IT Tanning materials
 (re-, fillers and, **acrylic** polymer-collagen hydrolyzate
 compns. as)
 IT 25135-39-1
 RL: USES (Uses)
 (filler-retanning agent, for leather)

L7 ANSWER 6 OF 17 CAPLUS COPYRIGHT 2003 ACS

Full Text

AN 1985:115520 CAPLUS
 DN 102:115520
 TI Tanning leather
 IN Prentiss, William Case; Price, David Noel
 PA Rohm and Haas Co., USA
 SO Eur. Pat. Appl., 22 pp.
 CODEN: EPXXDW
 DT Patent
 LA English
 IC C14C003-22
 CC 45-2 (Industrial Organic Chemicals, Leather, Fats, and Waxes)
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 118213	A1	19840912	EP 1984-300681	19840203
	EP 118213	B1	19871209		
	R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
	US 4526581	A	19850702	US 1983-464236	19830207
	ZA 8400406	A	19850327	ZA 1984-406	19840119
	CA 1203353	A1	19860422	CA 1984-445920	19840124
	IN 159885	A	19870613	IN 1984-DE69	19840124
	JP 59147100	A2	19840823	JP 1984-14984	19840130
	JP 04049880	B4	19920812		
	BR 8400366	A	19850212	BR 1984-366	19840130
	AU 8424019	A1	19840816	AU 1984-24019	19840202
	AU 565853	B2	19871001		
	AT 31326	E	19871215	AT 1984-300681	19840203
	ES 529486	A1	19851101	ES 1984-529486	19840206
PRAI	US 1983-464236		19830207		
	EP 1984-300681		19840203		

AB Leather which may be flexible, with smooth grain, well-filled, and with good resistance to detanning by alk. solns. is tanned using copolymers of ≥ 60 mol% **methacrylic** acid and ≥ 5 mol% C1-4 alkyl **acrylates**, having wt.-av. mol wt. 3500-9000. Thus, 90 g **methacrylic** acid and 10 g Et **acrylate** were polymd. in H₂O using (NH₄)₂S₂O₈, and partially neutralized with NaOH to give Et **acrylate-methacrylic** acid copolymer Na salt (I) [41487-53-0] having wt.-av. mol. wt. 5700. Pickled **hide** (1000 g) was drummed 6 h in a mixt. contg. 400 g 3% aq. **NaCl** and 400 g of the I soln., then fixation and exhaustion were completed by adding 50 mL 10% HCl, and drumming was continued 1.5 h until the liquor pH was 3.7. The shrinkage temp. of the leather obtained was 69.5°, and the exhaust efficiency 91% polymer uptake.

ST **methacrylic** acid copolymer tanning agent; alkyl **acrylate methacrylic** acid copolymer

IT Tanning materials

(**methacrylic** acid-alkyl **acrylate** copolymers)

IT **Acrylic** polymers, uses and miscellaneous

RL: USES (Uses)

(**methacrylic** acid-alkyl **acrylate** copolymers,
 tanning agents, for leather)

IT 25035-82-9 26589-39-9 41487-53-0

RL: USES (Uses)
(tanning agents, for leather)

L7 ANSWER 7 OF 17 CAPLUS COPYRIGHT 2003 ACS

Full Text

AN 1982:457485 CAPLUS

DN 97:57485

TI Tanned heavy leather

IN Beier, William C.; Hodder, James J.

PA Rohm and Haas Co., USA

SO U.S., 6 pp. Cont.-in-part of U.S. Ser. No. 69,470.

CODEN: USXXAM

DT Patent

LA English

IC C14C003-06; C14C003-08

NCL 008094190C

CC 45-2 (Industrial Organic Chemicals, Leather, Fats, and Waxes)

FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 4334876	A	19820615	US 1980-180175	19800821
	US 4314802	A	19820209	US 1979-69470	19790824
	CA 1146302	A1	19830517	CA 1980-357949	19800811
	JP 56059900	A2	19810523	JP 1980-115782	19800822
	JP 63054040	B4	19881026		
	ES 494900	A1	19810901	ES 1980-494900	19800823
	ZA 8005251	A	19810930	ZA 1980-5251	19800825
	IN 154699	A	19841208	IN 1980-DE688	19800922
	IN 154677	A	19841208	IN 1981-CA42	19810115
PRAI	US 1979-69470		19790824		
	GB 1980-551		19800108		
	US 1980-180175		19800821		

AB Heavy leather useful for shoe soles, belts and straps, bags and cases, and saddles, bridles, and harnesses is prepd. by a multiple-stage tanning process under carefully controlled pH conditions wherein the **hides** are 1st tanned with an aq. dispersion or soln. of an **acrylic** polymer and then retanned with a Zr tanning material having 0-45% basicity by the Schorlemmer scale. Thus, to a whole, pickled steer **hide** (pH 1.5-1.75) was added 200% (on wet **hide** wt.) of an aq. buffered weakly alk. soln. contg. **NaCl** 10, Borax 6, and NaOAc 1%, and the mixt. was agitated 5 h and stored overnight (~15 h) until the **hide** penetration was 100%, **hide** pH was ~4.75, and liquor pH was ~6.5. To the tanning vessel was added a soln. contg. 7.5% (on wet **hide** wt.) of a 40% solids soln. of a polymer prepd. from ~90 parts **methacrylic** acid and ~10 parts sulfated castor oil, and the mixt. was agitated ~2 h until the soln. completely penetrated the **hide** while maintaining **hide** pH at 4.75-5.0 and liquor pH at ~4.8. To the bath was added 1.5% (on wet **hide** wt.) of H₂SO₄ to adjust the liquor pH to ~2.8 and exhaust the 1st tannage. To the bath was added 12% (on wet **hide** wt.) in 3 equal portions of a Zr sulfate tanning material with sufficient H₂SO₄ to give 0% basicity (Schorlemmer) while maintaining leather pH at 1.5-1.75 and liquor pH at ~1.2, and the mixt. was agitated ~2 h and stored overnight until the **hide** penetration by the Zr compn. was 100%. The retanned leather was neutralized to isoelec. pH by addn., with agitation, of 8% (or wet **hide** wt.) of aq. NaHCO₃ soln. in feeds contg. 0.5% NaHCO₃ at 15 min intervals. The neutralized mixt. was agitated 1 h until the leather pH was 3.75-4.25 and the liquor pH was ~4. The leather was washed, treated with oil and a moldicide, and crust. dried for later use. The leather had properties superior to those obtained by conventional tanning processes.

ST **acrylic** zirconium tanning heavy leather; **methacrylic** acid copolymer tanning; castor oil copolymer tanning

IT Castor oil
 RL: USES (Uses)
 (sulfated, polymers with **methacrylic** acid, tanning with zirconium salts and, of heavy leather)

IT Tanning
 (**acrylic**-zirconium, of heavy leathers)

IT Tanning materials
 (syntans, **methacrylic** and-sulfated castor oil polymers, in tanning of heavy leather)

IT 14475-73-1
 RL: USES (Uses)
 (tanning with **acrylic** syntans and, of heavy leather)

IT 79-41-4D, polymers with sulfated castor oil
 RL: USES (Uses)
 (tanning with zirconium salts and, of heavy leather)

L7 ANSWER 8 OF 17 CAPLUS COPYRIGHT 2003 ACS

Full Text

AN 1982:8482 CAPLUS
 DN 96:8482
 TI Tanning compositions containing aluminum salts
 IN Feuer, Bernard Louis Arnaud
 PA Rhone-Poulenc Industries S. A., Fr.
 SO Fr. Demande, 29 pp.
 CODEN: FRXXBL
 DT Patent
 LA French
 IC C14C003-02; C14C003-04; C14C003-22; C08K003-30; C08L033-02
 CC 45-2 (Industrial Organic Chemicals, Leather, Fats, and Waxes)
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	---	-----	-----	-----
PI	FR 2463810	A1	19810227	FR 1979-21337	19790824
	FR 2463810	B1	19820625		
	BR 8005326	A	19810304	BR 1980-5326	19800822
	ES 494446	A1	19810901	ES 1980-494446	19800822
PRAI	FR 1979-21337		19790824		

AB Storage-stable tanning compns. contain Al salts and poly[(meth)**acrylic** acids] or their salts with low mol. wt. Thus, pickled sheepskins are drummed with H₂O 100, **NaCl** 10, and HCO₂H 1.5% (based on **hide** wt.) and 7% poly(**acrylic** acid) [9003-01-4] soln. (40.05%, viscosity 280 cP) is added, drumming continued 1 h, Al₂(SO₄)₃ added in 2 portions with a 1-h interval, drumming continued 6 h, and the mixt. basified with Na₂CO₃ to pH 4.8, left 24 h, rinsed, fatliquored, and dried to give leather which is soft, well filled out, and has shrinkage temp. 81°.

ST tanning agent leather; aluminum sulfate tanning leather; polyacrylic acid tanning leather

IT Tanning materials
 (aluminum sulfate-poly(**acrylic** acid), storage-stable)

IT 9003-01-4 9003-04-7
 RL: USES (Uses)
 (tanning agents, contg. aluminum sulfate, storage-stable)

IT 10043-01-3
 RL: USES (Uses)
 (tanning agents, contg. poly(**acrylic** acid), storage-stable)

L7 ANSWER 9 OF 17 CAPLUS COPYRIGHT 2003 ACS

Full Text

AN 1981:482413 CAPLUS
 DN 95:82413
 TI Treatment of raw **hides**, skins and leathers to develop improved leathers
 IN Joseph, Koithara Thomas; Rao, Koritala Panduranga; Nayudamma, Yelavarthy

PA Council of Scientific and Industrial Research (India), India
 SO Indian, 10 pp.
 CODEN: INXXAP
 DT Patent
 LA English
 IC C14C009-00
 CC 41-4 (Leather and Related Materials)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	IN 148356	A	19810124	IN 1978-DE195	19780315
PRAI	IN 1978-DE195		19780315		

AB Leather having improved phys. properties was prepd. by graft copolymn. of **hides** or leather with vinyl monomers in the presence of free radical initiators in an acidic soln. at room temp. Thus, delimed or bated **hides** were pickled in **NaCl** 5-15, H_2SO_4 0.5-2.0, and H_2O 100-300% (on **hide** wt.) until the **hide** pH was 2.1-2.5. To the same bath was added nonionic or anionic wetting agent 4, Me **methacrylate** 10-20, and ceric ammonium sulfate (initiator) 1.0-1.5%, optionally flushing the whole bath 15-20 min with N. The drumming was continued 2-3 h after which the stock was left stationary and well immersed for a total grafting time of 12-15 h. The grafted stock was washed, neutralized, tanned, dyed, fatliquored, and finished in the usual way.

ST vinyl grafting **hide** leather; methyl **methacrylate** grafting **hide**

IT **Hide**

Leather

(vinyl-grafted, by free radical initiation in acidic soln.)

IT Polymerization

(graft, of vinyl monomers on **hides** and leather, by free radical initiation in acidic soln.)

IT 80-62-6D, polymers with **hides** and leather 96-33-3D, polymers with **hides** and leather 107-13-1D, polymers with **hides** and leather 140-88-5D, polymers with **hides** and leather

RL: USES (Uses)

(graft, by free radical initiation in acidic soln.)

L7 ANSWER 10 OF 17 CAPLUS COPYRIGHT 2003 ACS

Full Text

AN 1979:594648 CAPLUS

DN 91:194648

TI Tanning of pig skin

IN Nowicki, Wladyslaw; Szymutko, Wlodzimierz; Dorczak, Marian; Mucha, Wincenty; Dela, Lucjan; Waclawiak, Wladyslaw; Radko, Tadeusz; Pawelec, Stanislaw

PA Poludniowe Zaklady Przemyslu Skorzanego "Chelmek", Pol.

SO Pol., 2 pp.

CODEN: POXXA7

DT Patent

LA Polish

IC C14C003-28

CC 41-2 (Leather and Related Materials)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	PL 102546	P	19790430	PL 1976-190272	19760608
PRAI	PL 1976-190272		19760608		

AB The tanning of pigskins for shoe uppers was improved when the liming was conducted in 2 stages: 1st in water contg. only Na_2S and then adding a surfactant, **NaCl**, and $Ca(OH)_2$. Thus, softened, unhaired, and defatted pigskin **hides** were limed by tumbling in 2 vols. water contg. 2.5% (on **hide** wt.) Na_2S for 1 h. Then Siarczanol 0.1, molasses 0.1, **NaCl** 4, and $Ca(OH)_2$ 3.5% were added and the tumbling continued for 10 h. The

hides were neutralized with (NH₄)₂SO₄-lactic acid-molasses mixt., pickled in solns. contg. **NaCl** and H₂SO₄, and tanned. The leathers were split, fatliquored, filled with low mol. wt. **acrylic** resins and casein, and coated with polyurethane lacquers.

ST liming pigskin shoe upper

IT Tanning
(of pigskins, 2-stage liming for)

L7 ANSWER 11 OF 17 CAPLUS COPYRIGHT 2003 ACS

Full Text

AN 1979:105672 CAPLUS

DN 90:105672

TI Leather tanning

IN Traeubel, Harro; Heinze, Helga

PA Bayer A.-G., Fed. Rep. Ger.

SO Ger. Offen., 14 pp. Addn. to Ger. Offen. 2,626,430.

CODEN: GWXXBX

DT Patent

LA German

IC C14C003-02

CC 41-3 (Leather and Related Materials)

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 2755087	A1	19781221	DE 1977-2755087	19771210
	GB 1581678	A	19801217	GB 1977-24034	19770608
PRAI	GB 1977-24034		19770608		
	DE 1976-2626430		19760612		

AB **Hides** were pretreated by adding polymers of ethylenically unsatd. carboxylic acids to the pickle liquor prior to chrome tanning. Thus, 100 parts bated **hide** was pickled with **NaCl** 3, poly(**acrylic** acid) [9003-01-4] 3, and H₂SO₄ 0.2 part in 11% H₂O (on **hide** wt.) to pH 3.5. To the pickle liquor was added 6 parts powd. 33% basic Cr(III) sulfate with 26% Cr oxide content, and after 2 h, 0.67 part dolomite was added and milled 10 h. Final temp. was 40°, and final pH was 4.05. Chrome consumption was 0.13 g Cr₂O₃/L.

ST **hide** pretreatment polyacrylate chrome tanning

IT **Hide**
(tanning pretreatment of, with polyacrylates)

IT Tanning
(chrome, polyacrylate pretreatment for)

IT 9003-01-4 26984-25-8

RL: USES (Uses)

(**hide** pretreatment with, for chrome tanning)

L7 ANSWER 12 OF 17 CAPLUS COPYRIGHT 2003 ACS

Full Text

AN 1976:107114 CAPLUS

DN 84:107114

TI Complex basic zirconium and aluminum salts

IN Erdmann, Hans; Miller, Franz Friedrich

PA BASF A.-G., Fed. Rep. Ger.

SO Ger. Offen., 15 pp.

CODEN: GWXXBX

DT Patent

LA German

IC C07C; C14C

CC 41-3 (Leather and Related Materials)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 2425970	A1	19760102	DE 1974-2425970	19740530

STN Columbus

GB 1470723	A	19770421	GB 1975-20061	19750513
AU 7581207	A1	19761118	AU 1975-81207	19750515
FI 7501483	A	19751201	FI 1975-1483	19750521
DD 120470	C	19760612	DD 1975-186310	19750528
AT 7504080	A	19760815	AT 1975-4080	19750528
AT 336164	B	19770425		
JP 51001601	A2	19760108	JP 1975-64417	19750530
FR 2275435	A1	19760116	FR 1975-16948	19750530
FR 2275435	B1	19781013		
BR 7503418	A	19760504	BR 1975-4382	19750530
ES 438048	A1	19770116	ES 1975-438048	19750530
US 4049379	A	19770920	US 1976-706765	19760719
PRAI DE 1974-2425970		19740530		
US 1975-579885		19750522		

AB The title salts were prepd. and used as tanning materials. Thus, to 0.9 l of a 2M soln. of zirconyl sulfuric acid [11117-80-9] (760 g $\text{H}_2\text{ZrO}(\text{SO}_4)_2 = 252 \text{ g ZrO}_2/\text{l.}$) was added 0.1 ml. of a 2M soln. of Al chloride [7446-70-0] (483 g $\text{AlCl}_3 \cdot 6\text{H}_2\text{O} = 102 \text{ g Al}_2\text{O}_3/\text{l.}$), and to this mixt. with stirring was added 0.5 l of a 2M Na_2CO_3 soln. (212 g $\text{Na}_2\text{CO}_3/\text{l.}$) and 0.5 l. of a 4 molar soln. of the Na salts of org. acids (272 g Na formate/l., 328 g Na acetate/l., 384 g Na propionate/l., 448 g Na lactate/l., 376 g Na **acrylate**/l., and 432 g Na **methacrylate**/l.). The resulting complex salt contained Zr:Al in molar ratio of 9:1 and contained in addn. 1 OH group/1 mole metal and 1 acid residue/1 mole metal. Delimed **hides** (100 parts) were pickled with 2 parts concd. H_2SO_4 and 6 parts **NaCl** in 70 parts H_2O . After 1 hr 60 vol. parts of the above tanning soln. were added to the pickle liquor, drummed 6 hr., neutralized to pH 4.2-4.6 with ~6.1 parts dolomite, drummed overnight, and horsed. The resulting leather was white and boilproof and lent itself well to dyeing.

ST aluminum zirconium complex tanning

IT Tanning materials
(aluminum-zirconium basic complexes)

IT Aluminum, complexes with zirconylsulfuric acid and carboxylic acid salts
Aluminum chloride, reaction products with zirconylsulfuric acid and carboxylic acid sodium salts
Zirconate(1-), hydroxybis[sulfato(2-)-O]-, reaction products with aluminum chloride and carboxylic acid sodium salts
Zirconium, complexes with aluminum chloride and carboxylic acid salts
RL: IMF (Industrial manufacture); PREP (Preparation)
(prepn. of, for tanning)

L7 ANSWER 13 OF 17 CAPLUS COPYRIGHT 2003 ACS

Full Text

AN 1976:75738 CAPLUS

DN 84:75738

TI Composition for preservation of **hides**

IN Tserevitinov, B. F.; Kaspar'yants, S. A.; Mashukov, S. D.; Zurabyan, K. M.; Syachin, I. I.; Asylkazhaev, K. A.

PA USSR

SO U.S.S.R.
From: Otkrytiya, Izobret., Prom. Obraztsy, Tovarnye Znaki 1975, 52(45), 70-1.
CODEN: URXXAF

DT Patent

LA Russian

IC C14C

CC 41-2 (Leather and Related Materials)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	SU 494409	T	19751205	SU 1974-1999859	19740214
PRAI	SU 1974-1999859		19740214		

AB For improving the quality of preserved **hides**, the title compns. comprised **NaCl** [7647-14-5] 20-40, hydroquinone [123-31-9] 0.002-0.008, penetrator 1.5-6.0, and **acrylic** acid polymer [9003-01-4] 5-15 g/l.

ST **hide** preservation **acrylic** polymer; **sodium chloride** **hide** preservation; hydroquinone **hide** preservation

IT **Hide**
(preservation of, with **acrylic** polymers, hydroquinone and **sodium chloride**)

IT 123-31-9, uses and miscellaneous 7647-14-5, uses and miscellaneous 9003-01-4
RL: USES (Uses)
(in **hide** preservation)

L7 ANSWER 14 OF 17 CAPLUS COPYRIGHT 2003 ACS
Full Text

AN 1973:454901 CAPLUS
DN 79:54901
TI Processing **hide** scraps
IN Kubitzky, Carl
SO Ger. Offen., 23 pp. Addn. to Ger. Offen. 2,057,314 (CA 78;5110f).
CODEN: GWXXBX
DT Patent
LA German
IC C08H; D01F; D06N
CC 41-2 (Leather and Related Materials)
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 2154494	A1	19730607	DE 1971-2154494	19711102
PRAI	DE 1971-2154494		19711102		

AB Comminuted, dried **hide** scraps were dissolved or swollen at high temp. in a mixt. contg. .geq.1 polyol, and .geq.1 amine and (or) .geq.1 amide and (or) Na thiocyanate [540-72-7] and the swollen material dissolved in aq. NaOH to give spinnable or castable solns. that could be combined with other polymers. Thus, a mixt. contg. NaSCN, diethylene glycol [111-46-6], glycerin [56-81-5], and air-dried (moisture content .sim.13 %) finely comminuted pelt scraps was heated 2 hr at 85-90.deg. to give swollen scraps. The swollen scraps were shaken 3-4 hrs with aq. NaOH at 20.deg. and shaken 1 hr at 20.deg. with CS₂. The resulting soln. was filtered, acidified, and treated with **NaCl** and the pptd. collagen sepd. and dissolved in DMF. The DMF soln. was mixed with Bu **acrylate**-vinyl acetate copolymer [25067-01-0], AcH, and dye to give a soln. which could be spun into fibers or be used as antistatic or tanning agents.

ST **hide** scrap recycling; thiocyanate treatment **hide**; polyol treatment **hide**; glycerol treatment **hide**; glycol treatment **hide**

IT Antistatic agents
Tanning materials
(butyl **acrylate**-vinyl acetate polymers, contg. collagen)

IT Synthetic fibers
RL: USES (Uses)
(butyl **acrylate**-vinyl acetate, contg. collagen)

IT Collagens, uses and miscellaneous
RL: USES (Uses)
(mixt. with butyl **acrylate**-vinyl acetate polymer, for antistatic or tanning agents for synthetic fibers)

IT **Hide**
(waste, recycling of)

IT 56-81-5, uses and miscellaneous 111-46-6, uses and miscellaneous 540-72-7
RL: USES (Uses)
(in dissolving of **hide** scraps)

IT 25067-01-0

RL: USES (Uses)

(mixt. with collagen, for antistatic or tanning agents for synthetic fibers)

L7 ANSWER 15 OF 17 CAPLUS COPYRIGHT 2003 ACS

Full Text

AN 1970:101874 CAPLUS

DN 72:101874

TI Polyacrylic tanning aids

IN Neel, Jean; Gagne, Pierre

PA PROGIL S. A.

SO Ger. Offen., 12 pp.

CODEN: GWXXBX

DT Patent

LA German

IC C14C

CC 41 (Leather and Related Materials)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	DE 1930225	A	19700219	DE 1969-1930225	19690613
	DE 1930225	C3	19730719		
	FR 1601410	A	19700824	FR 1968-69050103	19680614
PRAI	FR 1968-69050103		19680614		

AB The title items consist of copolymers of unsatd. org. acids and quaternized tertiary amines contg. ≤ 1 copolymerizable double bond. Thus, **acrylic** acid (65% solids) 155, [2-(**methacryloyloxy**)ethyl](trimethylammonium Me sulfate (80% solids) 31.5, Cu(OAc)₂ 0.7, and water 350 parts was slowly added to 700 parts water and 4 parts vol. H₂O₂ at 85°, warmed to reflux, and refluxed during 4 hr addn. time, during which 21 parts vol. H₂O₂ was also added. The product soln., which contained 10% wt. copolymer, was passed over an ion exchange resin to remove the Cu and concd. to a 20% soln. (A) which was nearly colorless and had Engler viscosity 1.5 at 20°. A steeped, dehaired, fleshed, delimed sheepskin was pickled, defatted with a petroleum-PhCl mixt., tumbled 30 min in a fulling mill with a mild pickling compn. contg. water 100, HCO₂H 0.2, and NaCl 5% (based on squeezed **hide** wt.), mixed with 5% (based on squeezed **hide** wt.) A, rotated 1 min, mixed with 10% (based on squeezed wt.) basic Cr sulfate in 3 portions, tumbled 3 hr, and allowed to stand 12 hr. The bath was adjusted to pH 3.9 with Na₂CO₃ and the **hides** were stacked for 48 hr, fat liquored, stacked, and dried. This leather showed a regular, adherent grain layer, was white with a violet tint, and was significantly whiter than the leather tanned similarly without the addn. of A. This leather had good dyeability with Acid Brown ETC and other leather dyes. These products give leathers with excellent dyeability and an adherent grain layer. The use of **methacrylic** acid, fumaric acid, itaconic acid, and suitably quaternized dimethylaminoethyl **acrylate** or dimethylamino-2-hydroxypropyl **acrylate** or **methacrylate** as monomers was also claimed.

ST tanning auxiliaries polymers; aminoalkyl **acrylates** quaternized copolymers; **acryloyloxyalkylammonium** compds copolymers; copolymers **acryloyloxyalkylammonium** compds; **acrylic** acids copolymers

IT Tanning materials

(syntans, from **acrylic** acid polymers)

IT 27322-51-6

RL: USES (Uses)

(for tanning)

L7 ANSWER 16 OF 17 CAPLUS COPYRIGHT 2003 ACS

Full Text

AN 1964:10650 CAPLUS

DN 60:10650

OREF 60:1947b-c

TI Sheepskin-a valuable material for the leather industry

AU Zhulin, A. P.

SO Kozh. Obuvn. Prom. (1963), 5(7), 6-9

DT Journal

LA Unavailable

CC 55 (Leather and Glue)

AB Sheepskins (I) used for shoe upper leather must have a higher tear strength, esp. a higher grain tear resistance. To attain this, bating is prolonged to 45-60 min. After 15 min. running, Nekal is added to intensify bating. Degreased I pelts are put in 50% H₂O at 32-35° with 3% NaCl and 0.2% HCHO (40%) dild. with 2% H₂O (on pelt wt.). After 15 min. drumming, 1% KAl(SO₄)₃·12H₂O or Al₂(SO₄)₃·18H₂O are added. I are then tanned with an ext. contg. 1.5% Cr₂O₃. After fatliquoring, I are treated with a kerosine emulsion. Finally, 0.2% HCHO (40%) is added to fix the fat liquor. Grain tear resistance is 1.52-1.62 kg./sq. mm. Shaving is reduced to a min. I upper leather has 1.2 mm. thickness; heavier I, which would need more shaving, are used for other purposes. During fatliquoring, 4% (dry substance) acrylic emulsion A or latex SKS-30-1 is added.

IT Hides

(prepg. sheepskin, for shoe upper leather manuf.)

IT Leather

(sheepskin shoe upper)

L7 ANSWER 17 OF 17 CAPLUS COPYRIGHT 2003 ACS

Full Text

AN 1957:32374 CAPLUS

DN 51:32374

OREF 51:6196f-h

TI Upholstery leather

PA Council of Scientific and Industrial Research

DT Patent

LA Unavailable

CC 29 (Leather and Glue)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	IN 53196		19561010	IN	
AB	Tanned hides are soaked in water, horsed up overnight, and split and shaved to 1.2-1.5 mm. The split hides are sammed and then stripped with 1-1.5% borax or 2-4% hypo. They are then pickled with 0.5% H ₂ SO ₄ , 5% NaCl, and 80% H ₂ O for 2 hrs. The percentages are based on wt. of the sammed leather. Al basic or normal salts in an amt. of 10-15% of the sammed leather are added to the pickling bath. In the case of normal salts, 0.5-1.5% of a masking agent, such as citric or tartaric acid or their salts, is added before increasing the pH of the tanning bath to 4.0-4.5 by addn. of 2-4% soda, 3-5% hypo, etc. The hides are drummed in the tanning bath for 6-8 hrs., horsed up, and left overnight. If necessary, they are surface dyed at 30-45° with an acid dye for 0.5-1 hr. and fat-liquored at about 50° for about 1 hr. The leather is then strained, staked, seasoned, and finished with an acrylic resin-pigment mixt.				
IT	Leather				
	(fat-liquoring of Al salt-tanned snakeskin)				
IT	Coating(s)				
	(of leather, with acrylic resin-pigment mixt., for upholstery)				
IT	Leather				
	(upholstery, Al salt-tanned acrylic resin-pigment mixt.-finished)				
IT	Aluminum salts				

STN Columbus

(leather (upholstery) treatment with)

=> file stnguide

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	68.09	68.30
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-11.07	-11.07

FILE 'STNGUIDE' ENTERED AT 16:30:34 ON 25 APR 2003
 USE IS SUBJECT TO THE TERMS OF YOUR CUSTOMER AGREEMENT
 COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY, JAPAN SCIENCE
 AND TECHNOLOGY CORPORATION, AND FACHINFORMATIONSZENTRUM KARLSRUHE

FILE CONTAINS CURRENT INFORMATION.
 LAST RELOADED: Apr 18, 2003 (20030418/UP).

=> log y

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	1.80	70.10
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-11.07

STN INTERNATIONAL LOGOFF AT 16:48:22 ON 25 APR 2003